



INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR03/00593

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC7 A61K 31/661		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 07 A61K 31/661		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS, EMBASE, MEDLINE		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 02/092104 A1 (BIOSYNERGEN, INC.) 21 November 2002 See claims	11-18, 22,25
A	MONICA J. et al, 'The Push-Me Pull-You of T Cell Activation', Science, 2001, Vol.293(5530), pp.618-9. See the whole document	1-25
A	KABAROWSKI, JANUSZ H.S., et al, 'Lysophosphatidylcholine as a ligand for the immunoregulatory receptor G2A', Science, 2001, Vol.293(5530), pp. 702-5. See the whole document	1-25
A	KUI ZHU, et al., 'Sphingosylphosphorycholine and Lysophosphatidylcholine Are Ligands for the G Protein-coupled Receptor GPR4', The Journal of Biological Chemistry, 2001, Vol.276, no.44, pp.41325-35. See the whole document	1-25
A	KATHRIN HEERMEIER, et al., 'Oxidized LDL Suppresses NF-kB and Overcomes Protection from Apoptosis in Activated Endothelial Cells', J. Am. Soc. Nephrol., 2001, Vol.12, pp.456-63. See the whole document	1-25
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 07 JULY 2003 (07.07.2003)		Date of mailing of the international search report 08 JULY 2003 (08.07.2003)
Name and mailing address of the ISA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140		Authorized officer KIM, Hee Jin Telephone No. 82-42-481-5412 

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LU Q. LE, et al., 'Mice Lacking the Orphan G Protein-Coupled Receptor G2A Develop a Late-Onset Autoimmune Syndrome', Immunity, 2001, Vol.14, pp.561-71. See the whole document	1-25
A	US 6207412 B1 (The Regents of the University of California) 27 March 2001 See the Abstract and claims	1-25
P,A	WO 02/24222 A2 (The Cleveland Clinic Foundation) 28 March 2002 See the whole document	1-25

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-19  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 1-19 are directed to a method of treatment of the human or animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:  
because they relate to part of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Search Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be established without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR03/00593

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02/092104 A1	21.11.02	None	
US 6207412 B1	27.03.01	WO 99/25830 A1 JP2001523456 T2 EP 1030917 A1 CA 2309339 AA	27.05.99 27.11.01 30.08.00 27.05.99
WO 02/24222 A2	28.03.02	US 2002107197 A1 AU 192867 A5	08.08.02 02.04.02